

Data Path : W:\HPCHEM1\MSVOA D\DATA\VD092115\
 Data File : VD046816.D
 Acq On : 21 Sep 2015 19:19
 Operator : FY/SY
 Sample : G3748-06
 Misc : 12.32qm/5mL/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MGP205-24-25

Quant Time: Sep 22 01:10:54 2015
 Quant Method : W:\HPCHEM1\MSVOA_D\METHOD\82D091815S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 18 15:47:18 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.29	168	277577	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	7.42	114	372205	50.00	ug/l	-0.02
63) Chlorobenzene-d5	11.57	117	296252	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	13.90	152	143612	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.70	65	118202	40.96	ug/l	-0.02
Spiked Amount			Recovery	=	81.92%	
35) Dibromofluoromethane	6.19	113	138777	47.65	ug/l	-0.03
Spiked Amount			Recovery	=	95.30%	
50) Toluene-d8	9.60	98	382833	41.67	ug/l	-0.02
Spiked Amount			Recovery	=	83.34%	
62) 4-Bromofluorobenzene	12.84	95	135899	36.74	ug/l	-0.02
Spiked Amount			Recovery	=	73.48%	

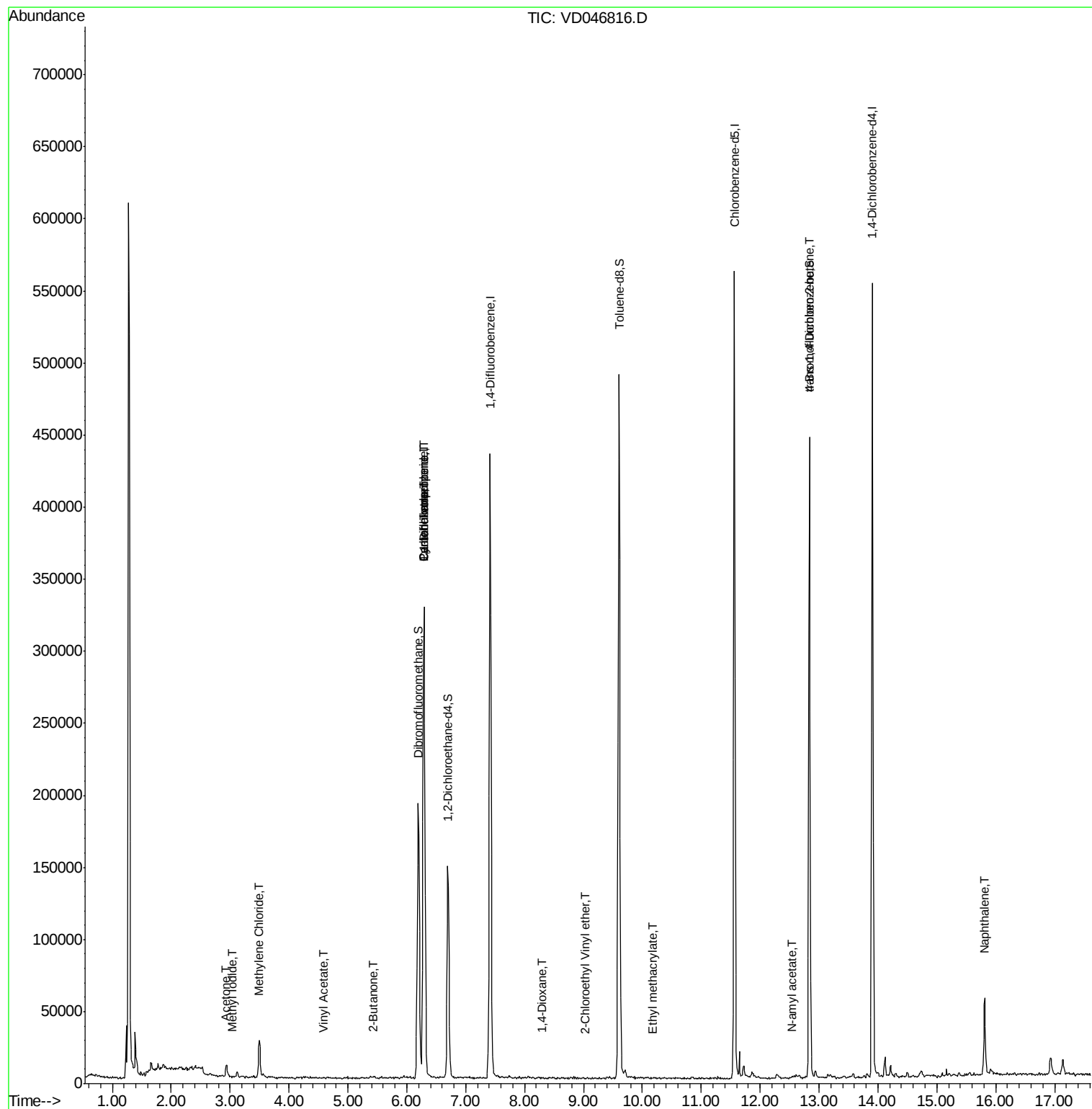
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.41	85	952	Below Cal		72
3) Chlorodifluoromethane	1.43	51	407	Below Cal		95
6) Bromomethane	1.98	94	287	Below Cal	#	2
11) Methyl Iodide	3.04	142	85	1.76	ug/l #	35
12) Tert butyl alcohol	3.67	59	111	Below Cal	#	74
17) Acetone	2.93	43	12148	24.91	ug/l	92
21) Methylene Chloride	3.49	84	12026	4.54	ug/l	95
24) Vinyl Acetate	4.58	43	118	15.05	ug/l #	82
26) 2-Butanone	5.44	43	1724	3.15	ug/l #	61
31) Cyclohexane	6.28	56	6213	1.43	ug/l #	1
36) 1,1-Dichloropropene	6.29	75	23198	5.33	ug/l #	51
38) Carbon Tetrachloride	6.29	117	22900	5.07	ug/l #	15
49) 1,4-Dioxane	8.28	88	32	3.07	ug/l #	20
56) Ethyl methacrylate	10.17	69	279	4.01	ug/l #	35
58) 2-Chloroethyl Vinyl ether	9.03	63	95	6.43	ug/l #	53
74) N-amyl acetate	12.52	43	183	4.78	ug/l #	54
81) trans-1,4-Dichloro-2-buten	12.84	75	70246	138.81	ug/l #	9
95) Naphthalene	15.81	128	52251	18.74	ug/l	97

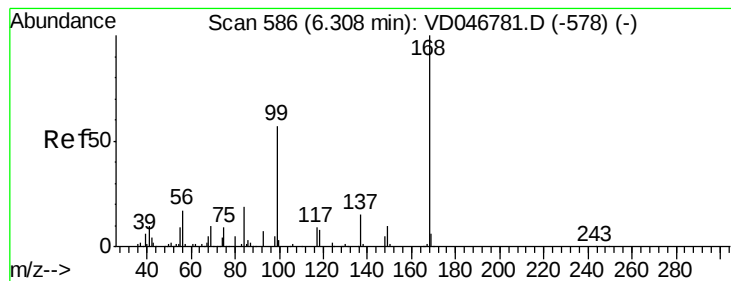
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.29 min Scan# 585

Delta R.T. -0.02 min

Lab File: VD046816.D

Acq: 21 Sep 2015 19:19

Instrument :

MSVOA_D

ClientSampleId :

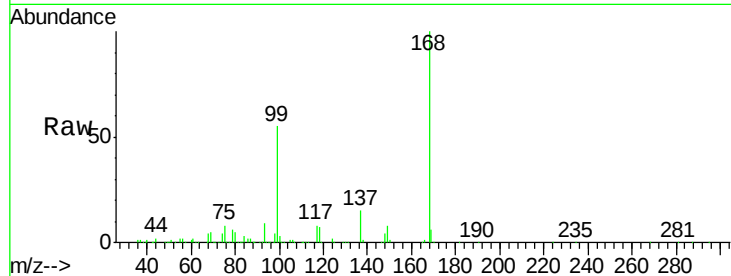
MGP205-24-25

Tot Ion:168 Resp: 277577

Ion Ratio Lower Upper

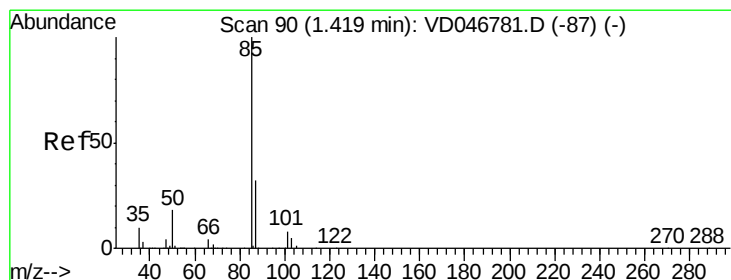
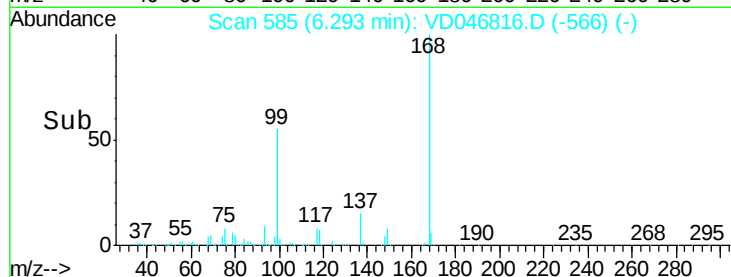
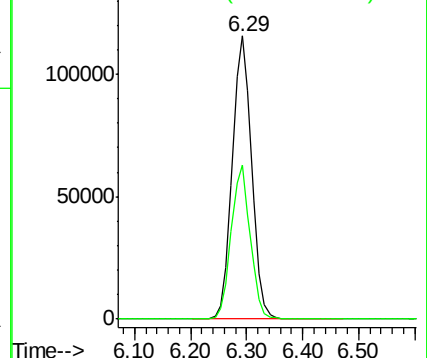
168 100

99 54.6 42.4 63.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.41 min Scan# 90

Delta R.T. -0.01 min

Lab File: VD046816.D

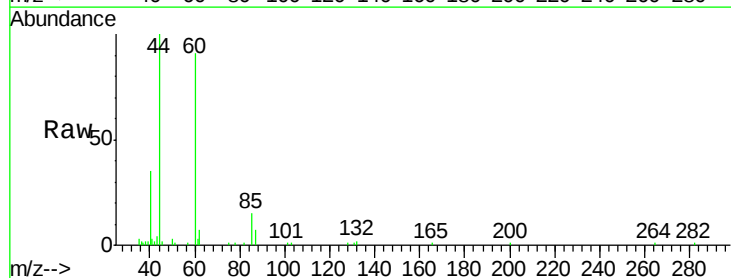
Acq: 21 Sep 2015 19:19

Tgt Ion: 85 Resp: 952

Ion Ratio Lower Upper

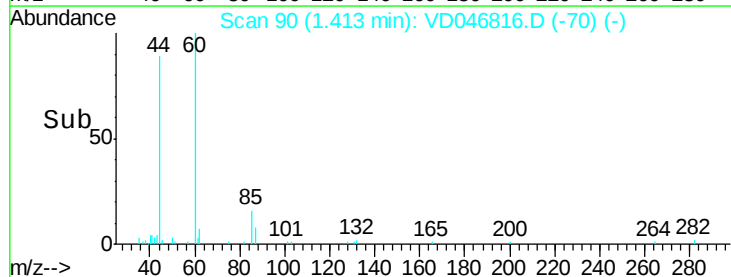
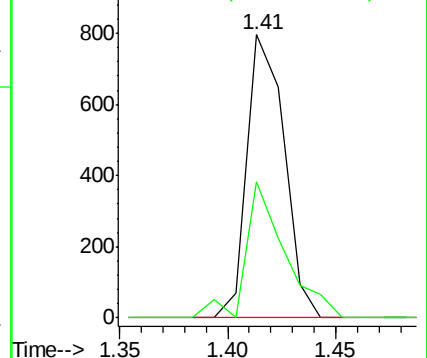
85 100

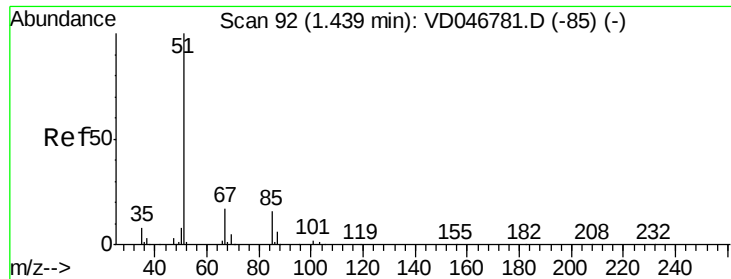
87 48.0 16.2 48.5



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chlorodifluoromethane

Concen: Below Cal

RT: 1.43 min Scan# 92

Delta R.T. -0.00 min

Lab File: VD046816.D

Acq: 21 Sep 2015 19:19

Instrument :

MSVOA_D

ClientSampleId :

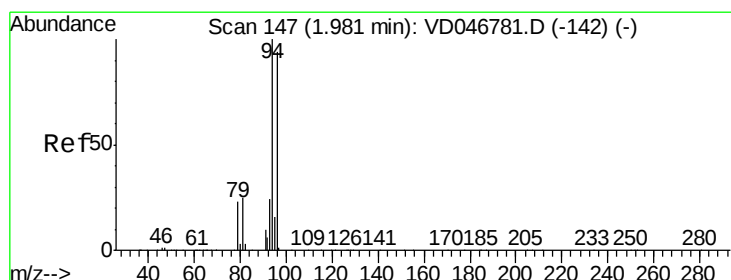
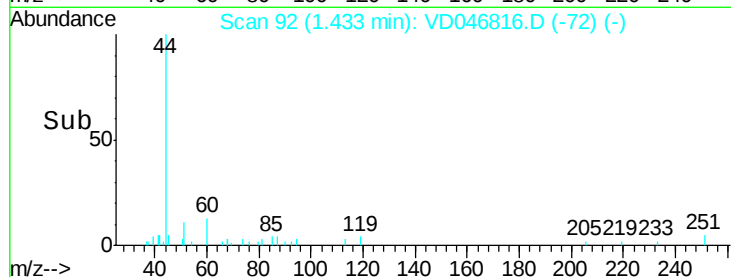
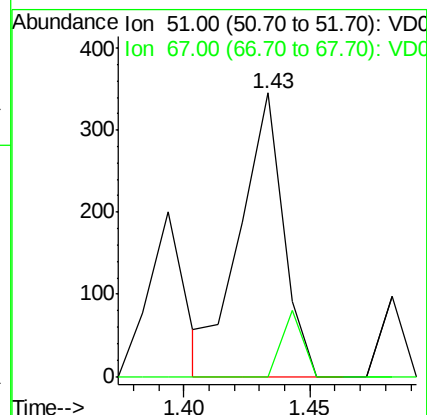
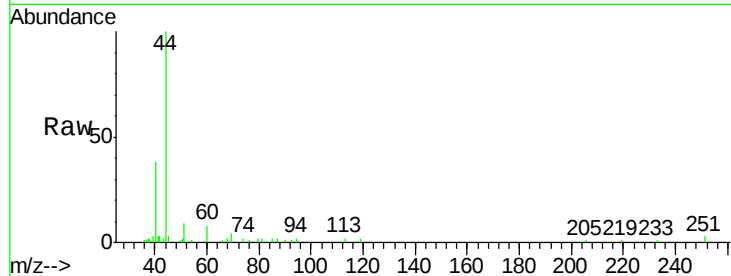
MGP205-24-25

Tot Ion: 51 Resp: 407

Ion Ratio Lower Upper

51 100

67 11.5 10.9 16.3



#6

Bromomethane

Concen: Below Cal

RT: 1.98 min Scan# 147

Delta R.T. -0.01 min

Lab File: VD046816.D

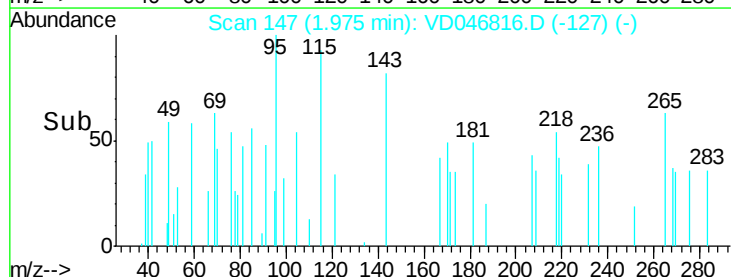
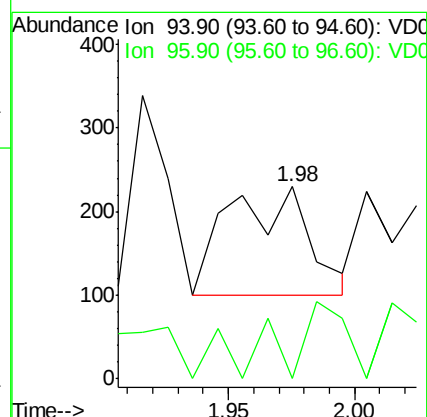
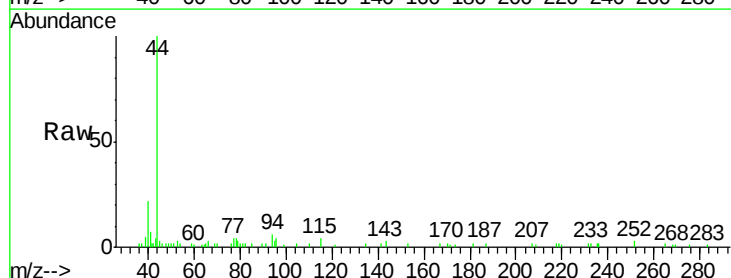
Acq: 21 Sep 2015 19:19

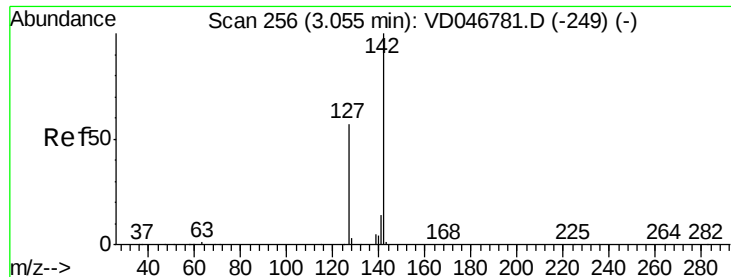
Tgt Ion: 94 Resp: 287

Ion Ratio Lower Upper

94 100

96 0.0 76.0 114.0#

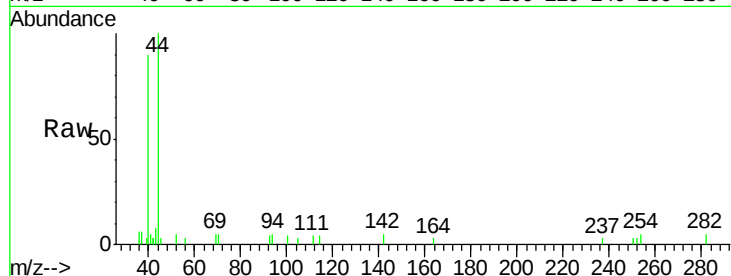




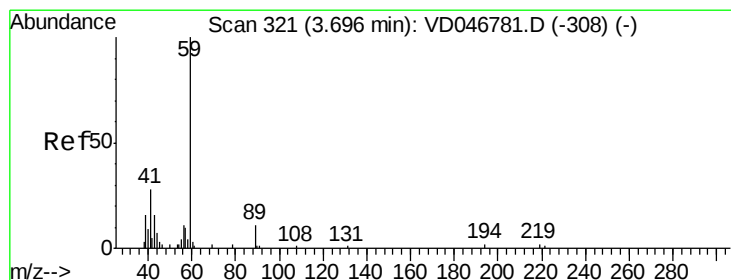
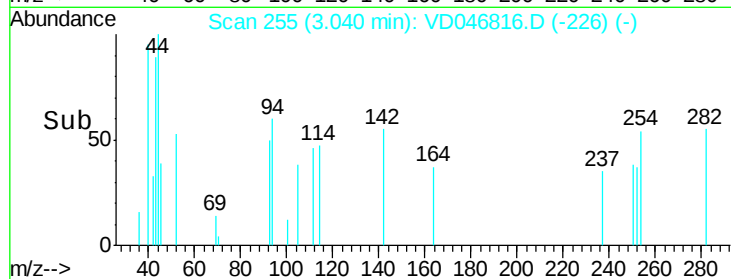
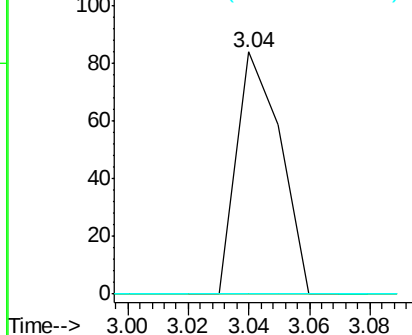
#11
Methvl Iodide
Concen: 1.76 ua/l
RT: 3.04 min Scan# 255
Delta R.T. -0.02 min
Lab File: VD046816.D
Acq: 21 Sep 2015 19:19

Instrument :
MSVOA_D
ClientSampleId :
MGP205-24-25

Tot Ion	Ratio	Lower	Upper
142	100		
127	0.0	41.2	61.8#
141	0.0	11.6	17.4#

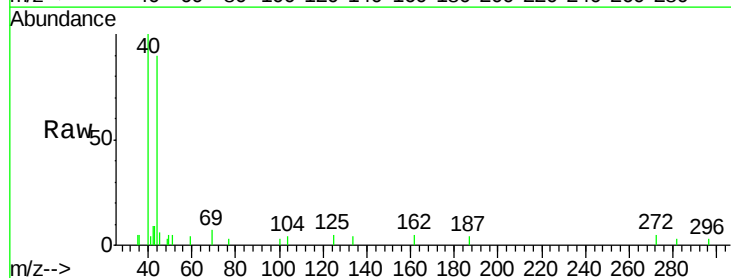


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

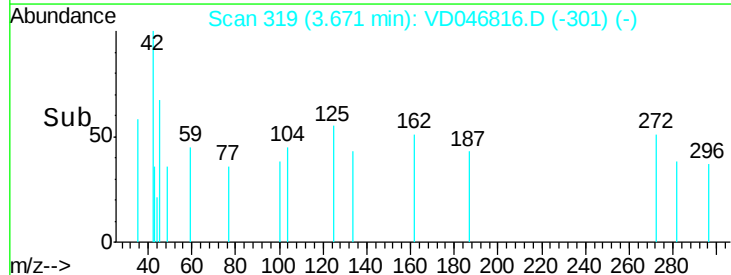
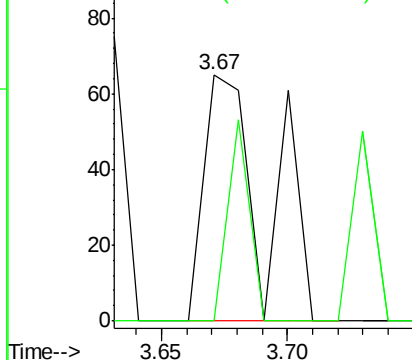


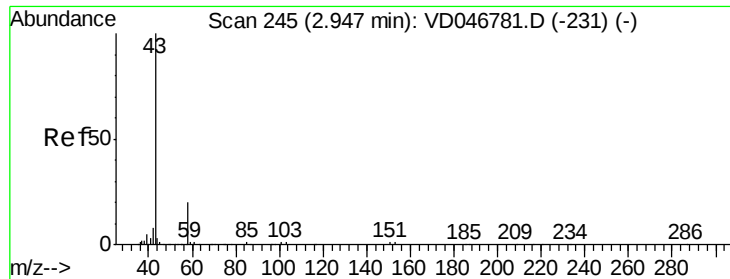
#12
Tert butyl alcohol
Concen: Below Cal
RT: 3.67 min Scan# 319
Delta R.T. -0.03 min
Lab File: VD046816.D
Acq: 21 Sep 2015 19:19

Tgt Ion	Ratio	Lower	Upper
59	100		
57	0.0	7.8	11.6#



Abundance Ion 58.95 (58.65 to 59.65): V
Ion 56.95 (56.65 to 57.65): V





#17

Acetone

Concen: 24.91 ug/l

RT: 2.93 min Scan# 244

Delta R.T. -0.02 min

Lab File: VD046816.D

Acq: 21 Sep 2015 19:19

Instrument :

MSVOA_D

ClientSampleId :

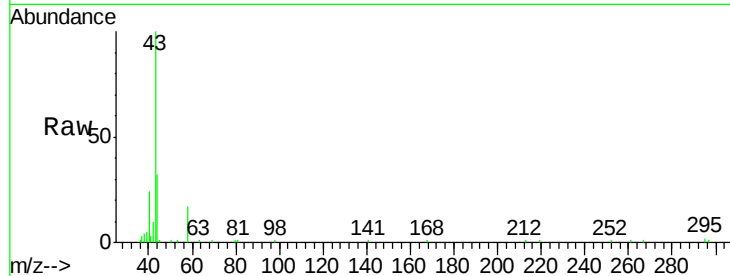
MGP205-24-25

Tot Ion: 43 Resp: 12148

Ion Ratio Lower Upper

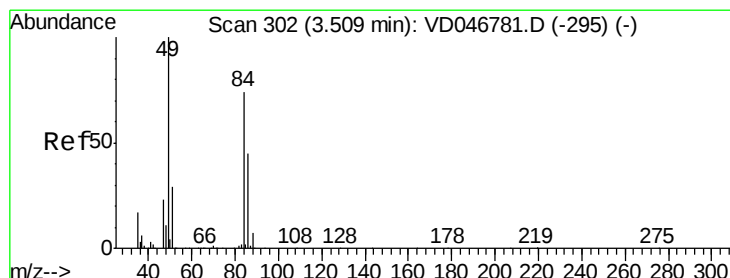
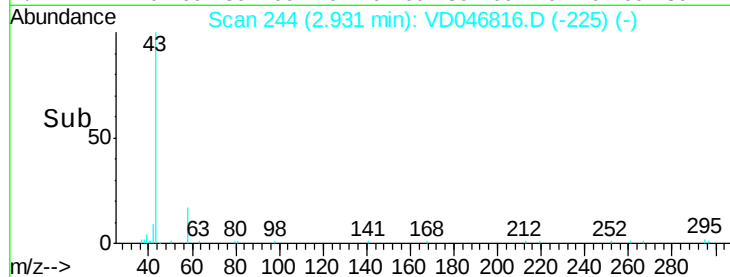
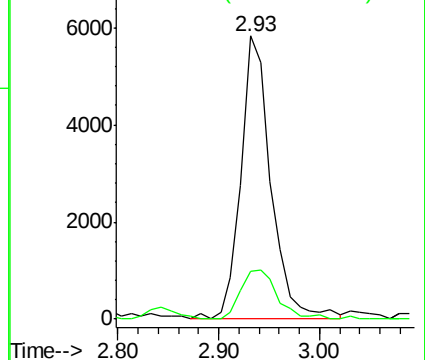
43 100

58 16.9 16.6 24.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#21

Methylene Chloride

Concen: 4.54 ug/l

RT: 3.49 min Scan# 301

Delta R.T. -0.02 min

Lab File: VD046816.D

Acq: 21 Sep 2015 19:19

Tgt Ion: 84 Resp: 12026

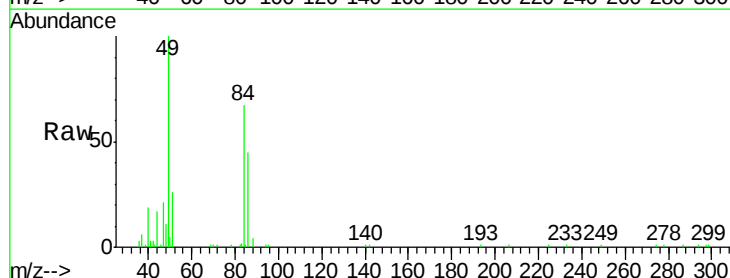
Ion Ratio Lower Upper

84 100

49 148.8 122.1 183.1

51 39.4 33.6 50.4

86 67.1 48.3 72.5

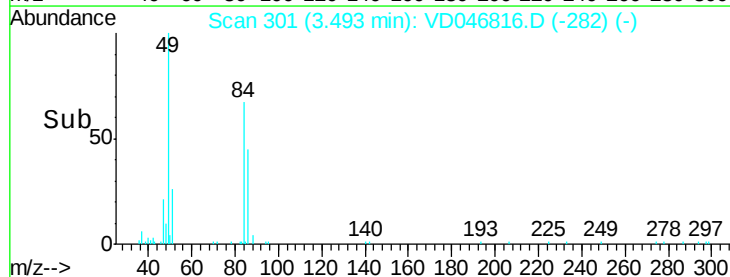
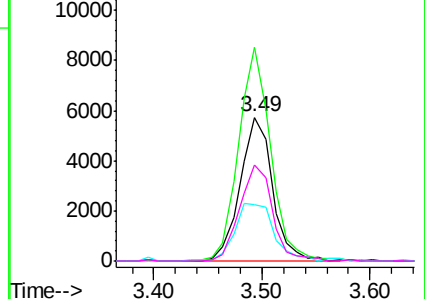


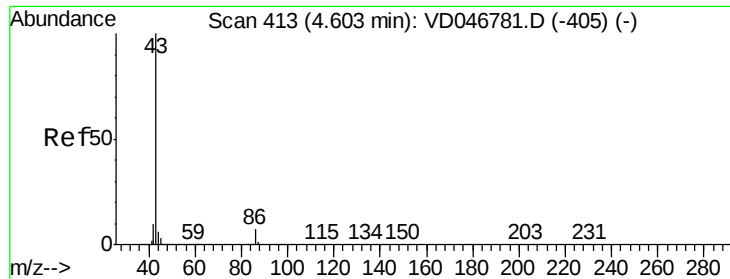
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#24

Vinyl Acetate

Concen: 15.05 ug/l

RT: 4.58 min Scan# 411

Delta R.T. -0.03 min

Lab File: VD046816.D

Acq: 21 Sep 2015 19:19

Instrument :

MSVOA_D

ClientSampleId :

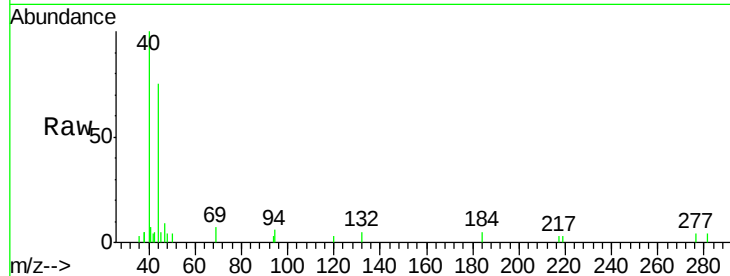
MGP205-24-25

Tot Ion: 43 Resp: 118

Ion Ratio Lower Upper

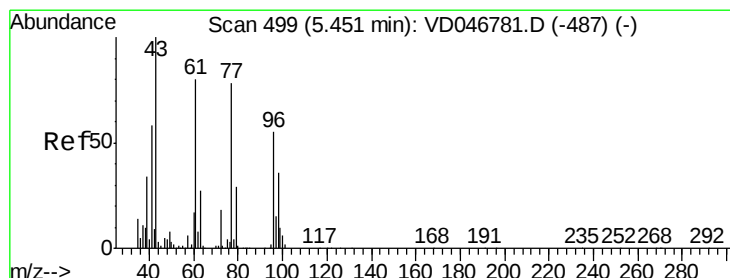
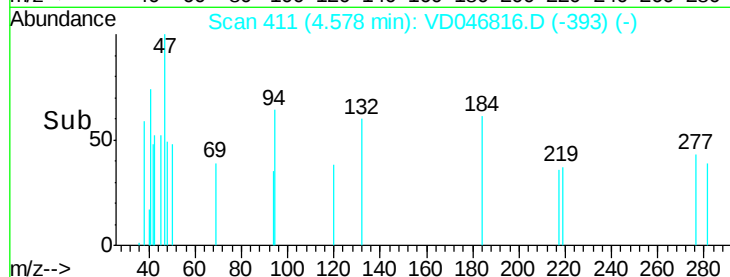
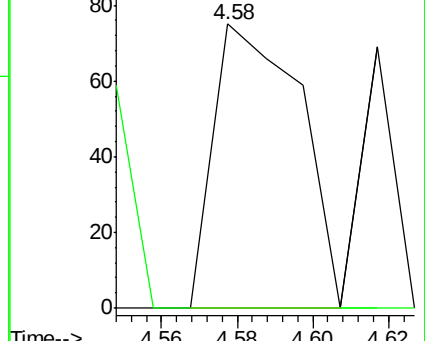
43 100

86 0.0 4.9 7.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#26

2-Butanone

Concen: 3.15 ug/l

RT: 5.44 min Scan# 498

Delta R.T. -0.02 min

Lab File: VD046816.D

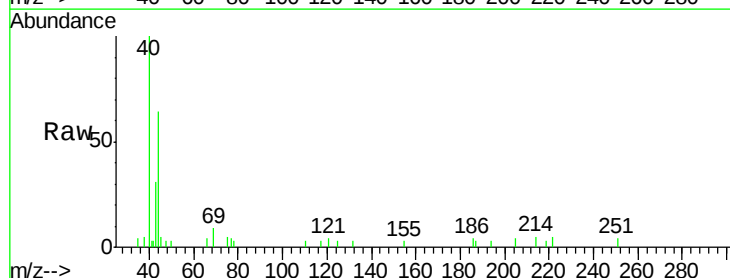
Acq: 21 Sep 2015 19:19

Tgt Ion: 43 Resp: 1724

Ion Ratio Lower Upper

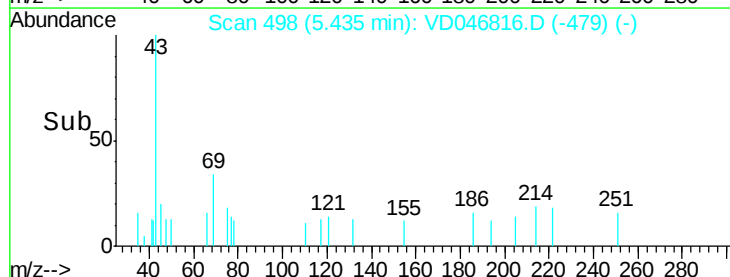
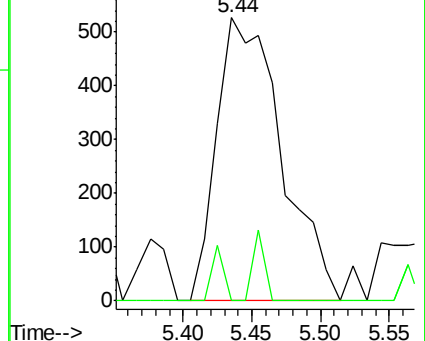
43 100

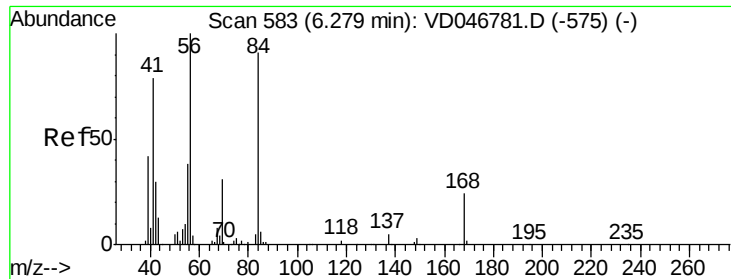
72 0.0 13.4 20.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

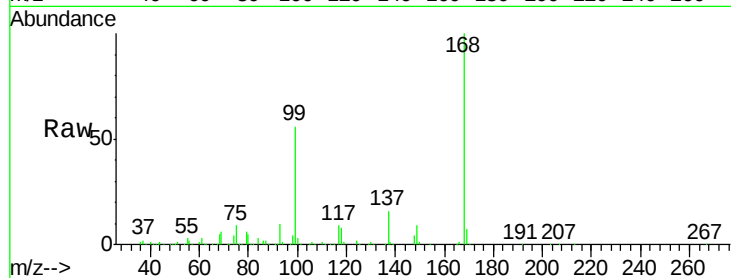




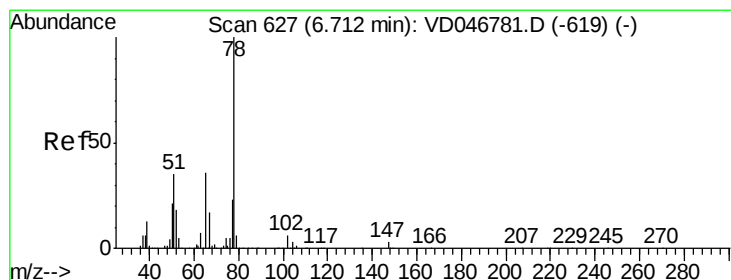
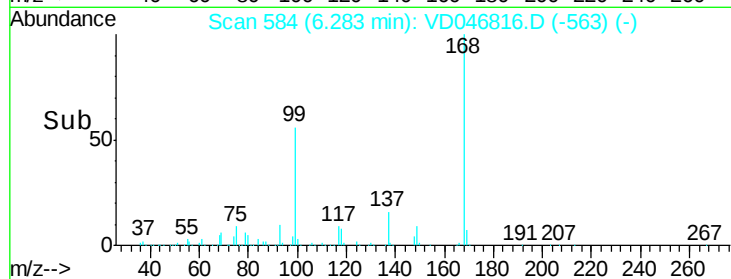
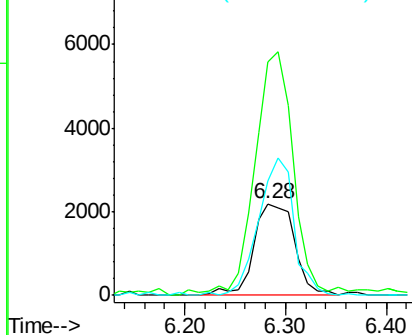
#31
Cyclohexane
Concen: 1.43 ug/l
RT: 6.28 min Scan# 584
Delta R.T. 0.00 min
Lab File: VD046816.D
Acq: 21 Sep 2015 19:19

Instrument :
MSVOA_D
ClientSampleId :
MGP205-24-25

Tot Ion: 56 Resp: 6213
Ion Ratio Lower Upper
56 100
69 254.3 23.4 35.0#
84 124.9 63.8 95.8#

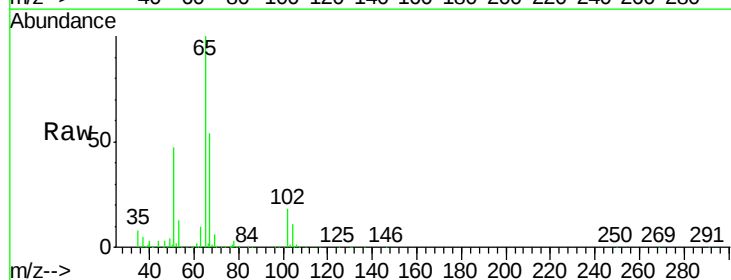


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

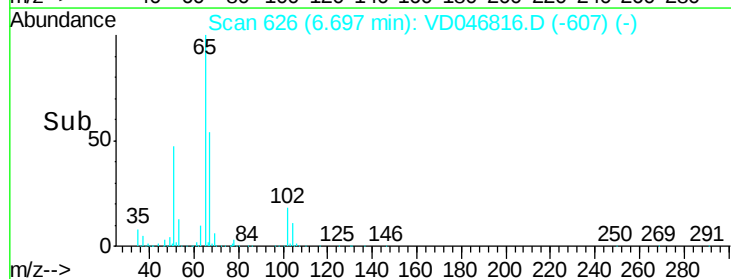
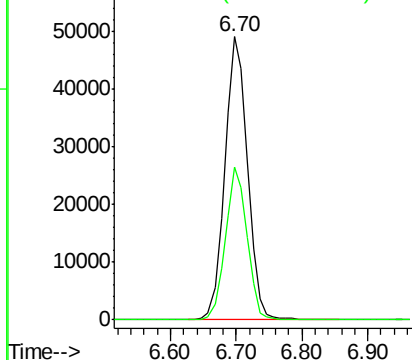


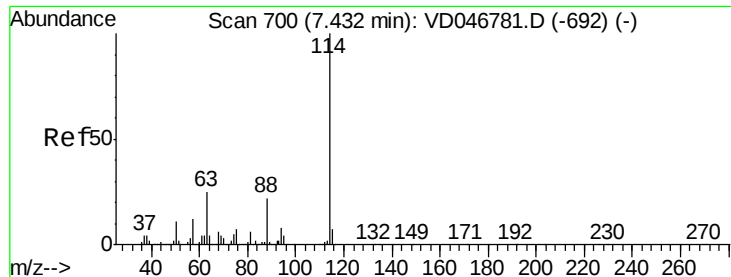
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 6.70 min Scan# 626
Delta R.T. -0.02 min
Lab File: VD046816.D
Acq: 21 Sep 2015 19:19

Tgt Ion: 65 Resp: 118202
Ion Ratio Lower Upper
65 100
67 53.8 0.0 105.4



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 7.42 min Scan# 699

Delta R.T. -0.02 min

Lab File: VD046816.D

Acq: 21 Sep 2015 19:19

Instrument :

MSVOA_D

ClientSampleId :

MGP205-24-25

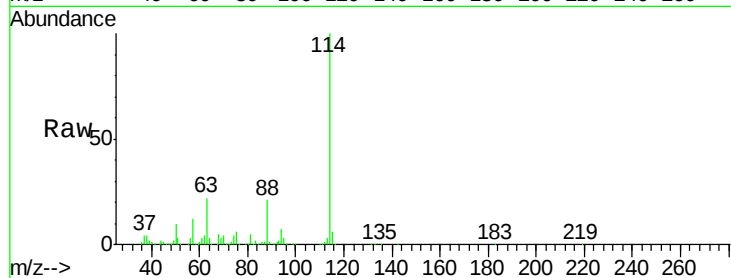
Tot Ion:114 Resp: 372205

Ion Ratio Lower Upper

114 100

63 22.4 0.0 49.8

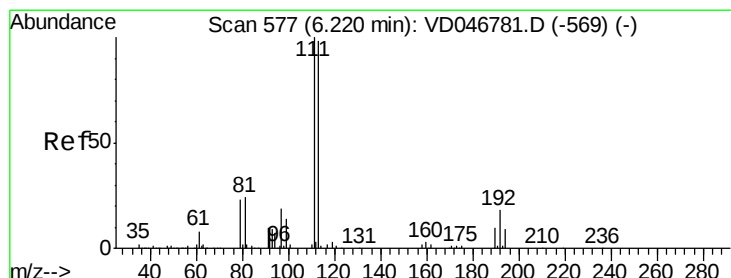
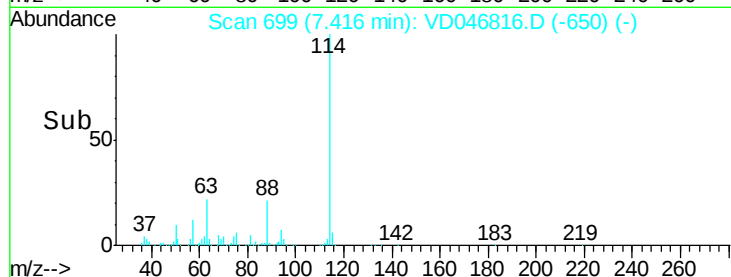
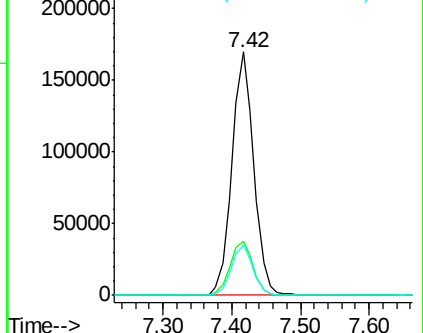
88 20.6 0.0 43.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 6.19 min Scan# 575

Delta R.T. -0.03 min

Lab File: VD046816.D

Acq: 21 Sep 2015 19:19

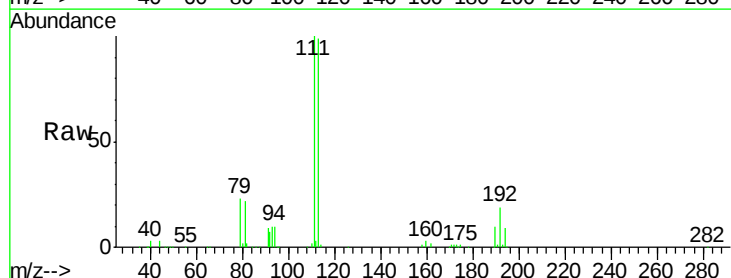
Tgt Ion:113 Resp: 138777

Ion Ratio Lower Upper

113 100

111 100.7 79.4 119.0

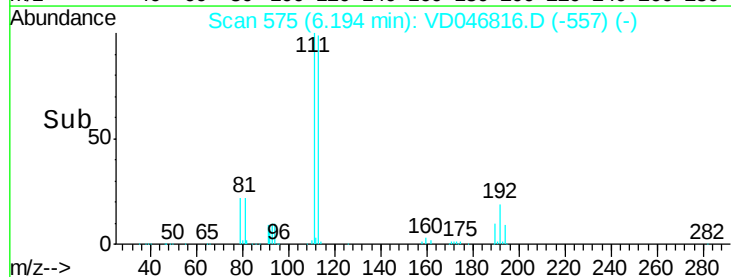
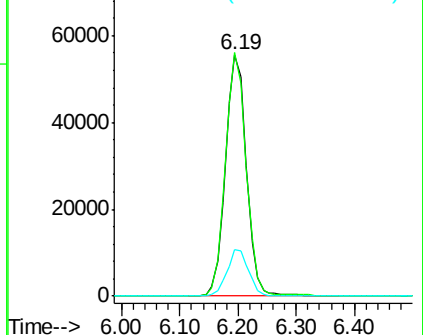
192 19.1 14.6 22.0

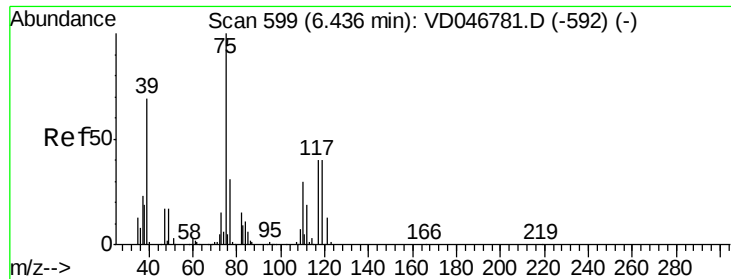


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

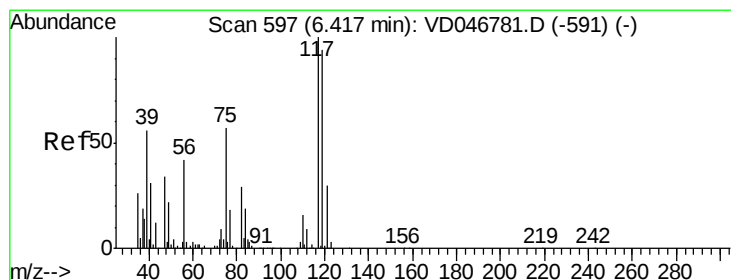
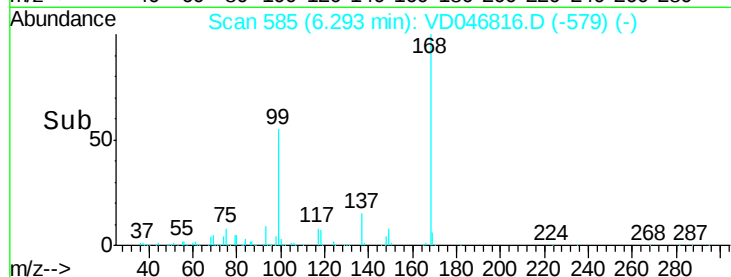
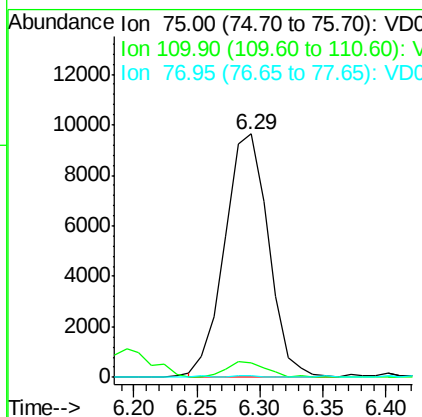
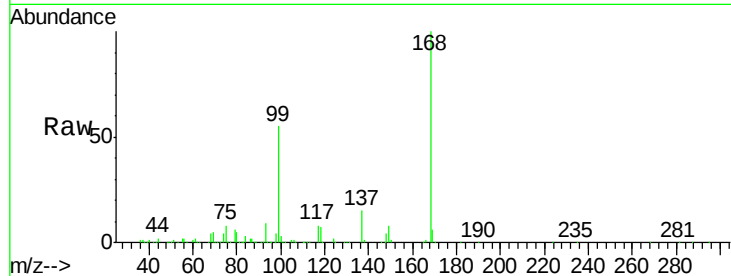




#36
 1,1-Dichloropropene
 Concen: 5.33 ug/l
 RT: 6.29 min Scan# 585
 Delta R.T. -0.14 min
 Lab File: VD046816.D
 Acq: 21 Sep 2015 19:19

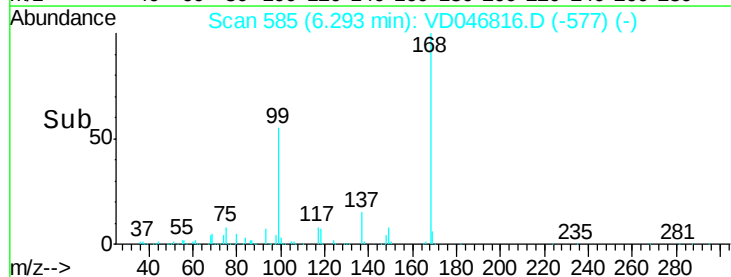
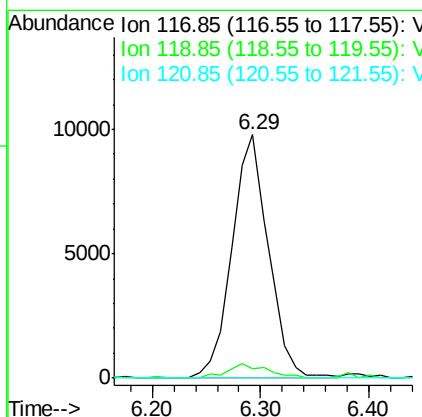
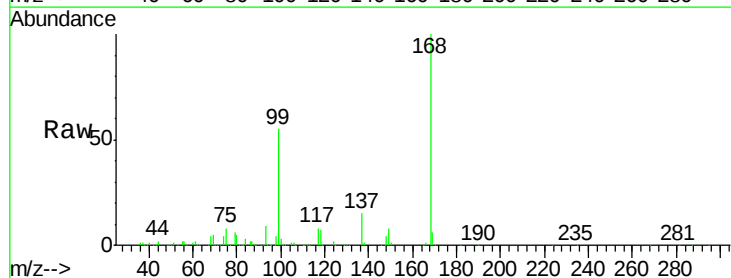
Instrument :
 MSVOA_D
 ClientSampleId :
 MGP205-24-25

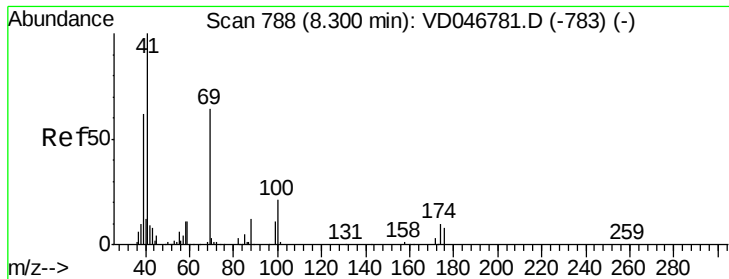
Tot Ion	Ratio	Lower	Upper
75	100		
110	5.9	13.7	41.0#
77	0.5	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 5.07 ug/l
 RT: 6.29 min Scan# 585
 Delta R.T. -0.12 min
 Lab File: VD046816.D
 Acq: 21 Sep 2015 19:19

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.1	76.2	114.4#
121	0.0	24.5	36.7#





#49

1,4-Dioxane

Concen: 3.07 ug/l

RT: 8.28 min Scan# 787

Delta R.T. -0.02 min

Lab File: VD046816.D

Acq: 21 Sep 2015 19:19

Instrument :

MSVOA_D

ClientSampleId :

MGP205-24-25

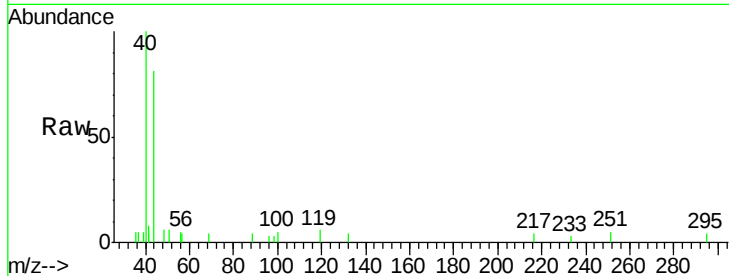
Tot Ion: 88 Resp: 32

Ion Ratio Lower Upper

88 100

43 0.0 50.0 75.0#

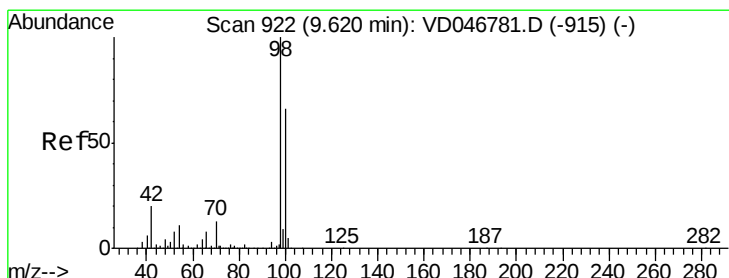
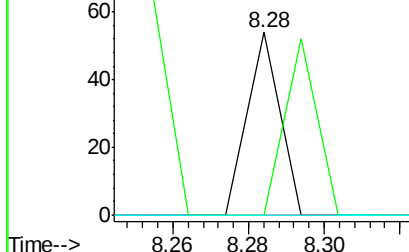
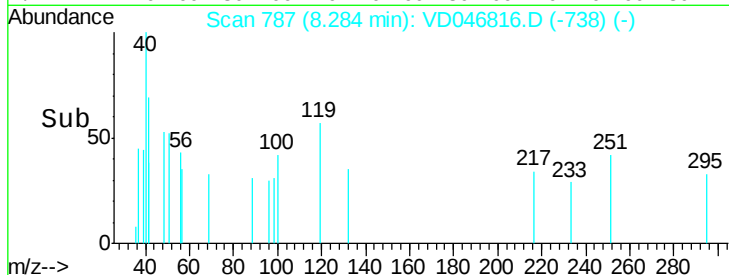
58 0.0 48.3 72.5#



Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC



#50

Toluene-d8

Concen: 3.07 ug/l

RT: 9.60 min Scan# 921

Delta R.T. -0.02 min

Lab File: VD046816.D

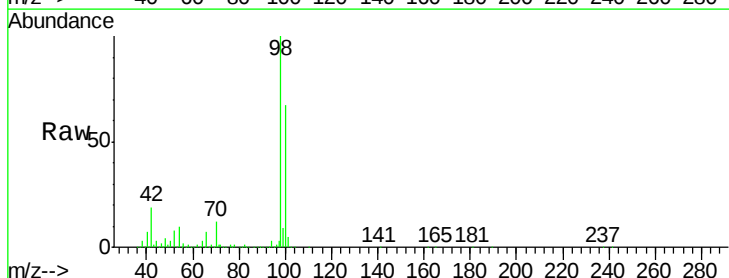
Acq: 21 Sep 2015 19:19

Tgt Ion: 98 Resp: 382833

Ion Ratio Lower Upper

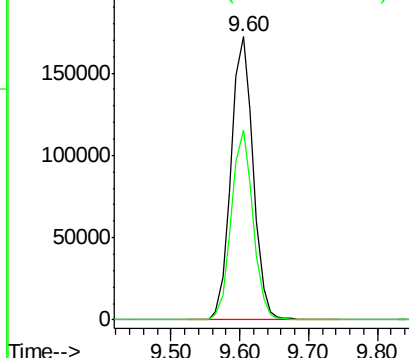
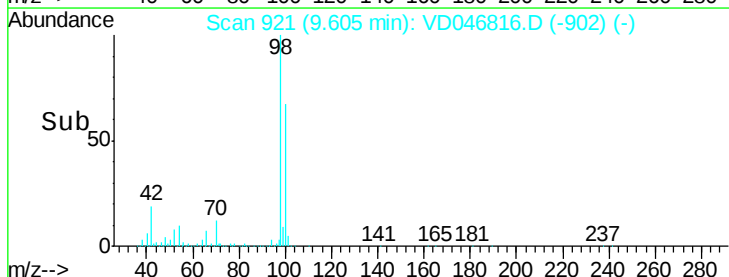
98 100

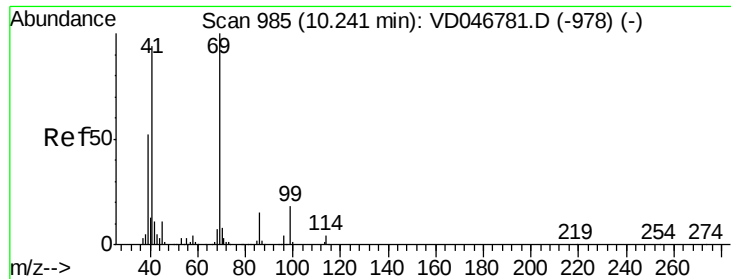
100 67.0 49.9 74.9



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

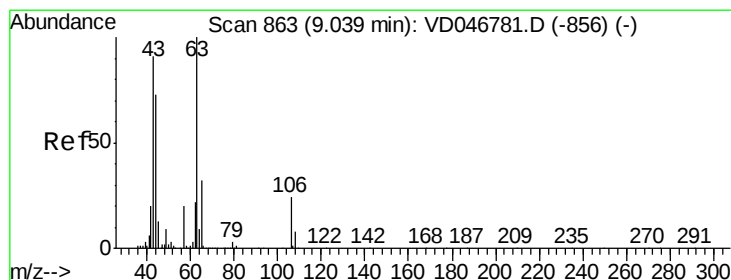
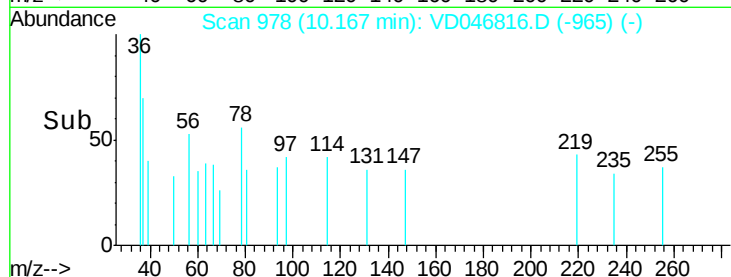
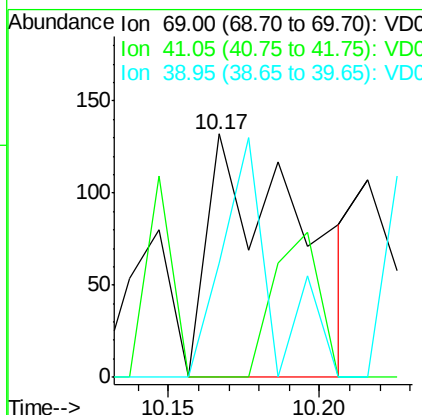
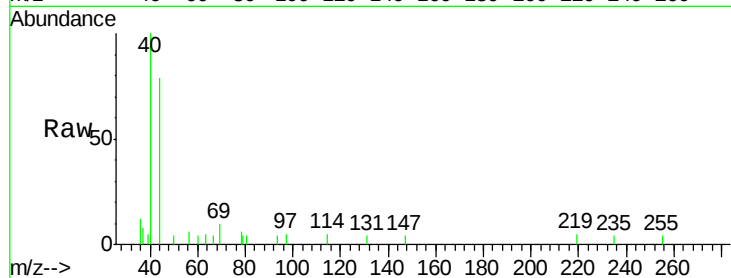




#56
 Ethyl methacrylate
 Concen: 4.01 ug/l
 RT: 10.17 min Scan# 978
 Delta R.T. -0.07 min
 Lab File: VD046816.D
 Acq: 21 Sep 2015 19:19

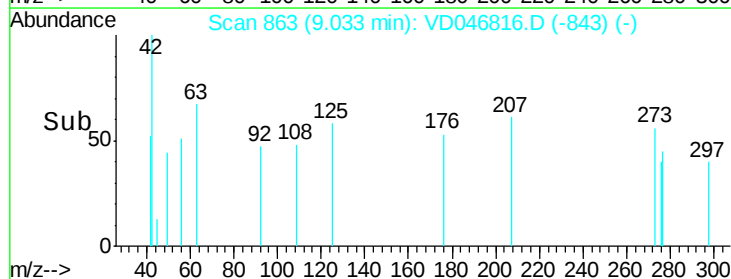
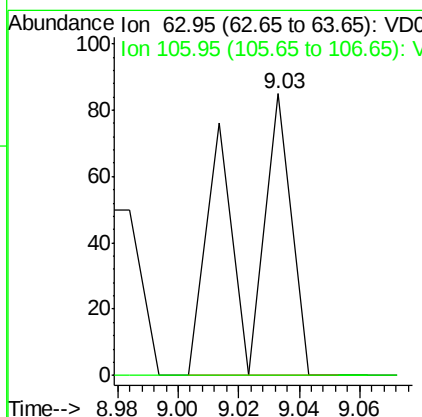
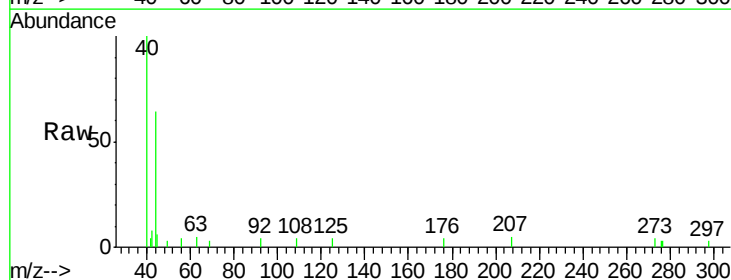
Instrument :
 MSVOA_D
 ClientSampleId :
 MGP205-24-25

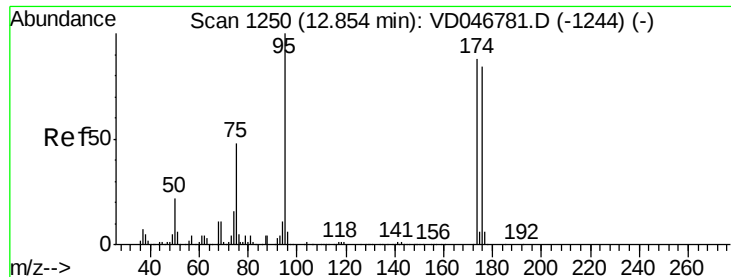
Tot Ion: 69 Resp: 279
 Ion Ratio Lower Upper
 69 100
 41 0.0 75.4 113.0#
 39 47.0 41.0 61.4



#58
 2-Chloroethyl Vinyl ether
 Concen: 6.43 ug/l
 RT: 9.03 min Scan# 863
 Delta R.T. -0.00 min
 Lab File: VD046816.D
 Acq: 21 Sep 2015 19:19

Tgt Ion: 63 Resp: 95
 Ion Ratio Lower Upper
 63 100
 106 0.0 17.8 26.8#





#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.84 min Scan# 1249

Delta R.T. -0.02 min

Lab File: VD046816.D

Acq: 21 Sep 2015 19:19

Instrument :

MSVOA_D

ClientSampleId :

MGP205-24-25

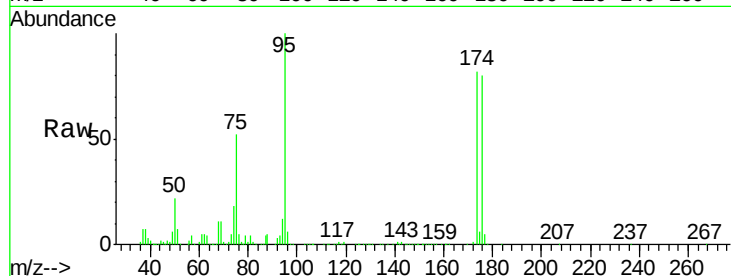
Tot Ion: 95 Resp: 135899

Ion Ratio Lower Upper

95 100

174 82.2 0.0 149.8

176 80.3 0.0 143.4



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

120000

100000

80000

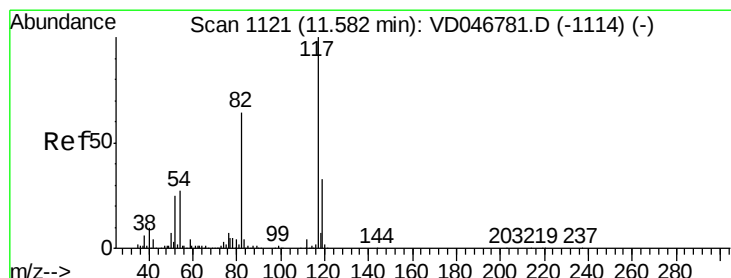
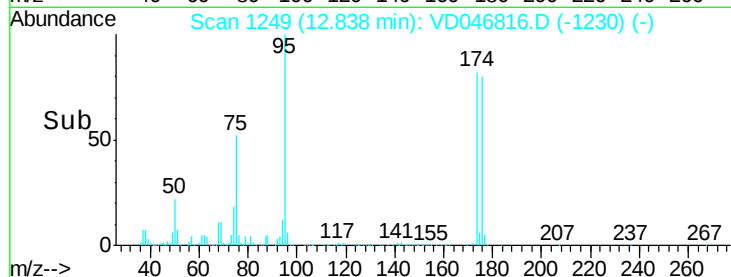
60000

40000

20000

0

Time--> 12.70 12.80 12.90



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.57 min Scan# 1120

Delta R.T. -0.02 min

Lab File: VD046816.D

Acq: 21 Sep 2015 19:19

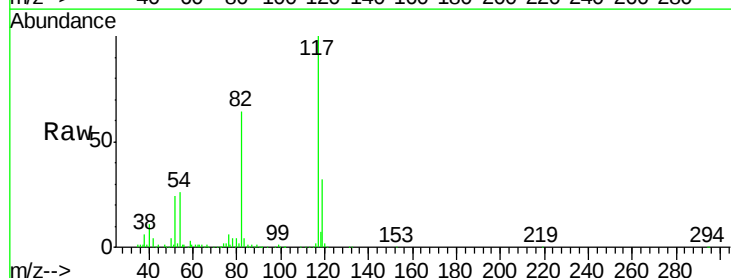
Tgt Ion: 117 Resp: 296252

Ion Ratio Lower Upper

117 100

82 64.2 50.6 75.8

119 31.7 25.8 38.8



Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

200000

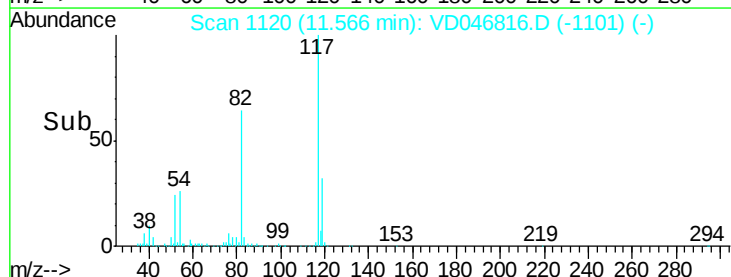
150000

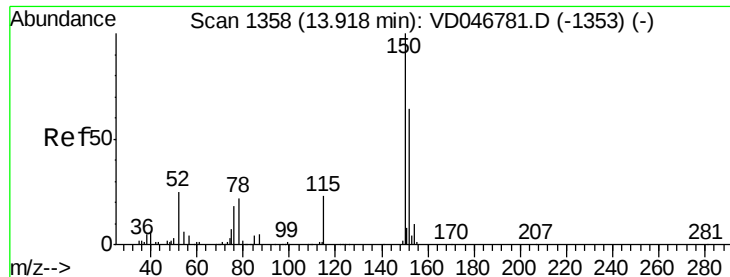
100000

50000

0

Time--> 11.40 11.50 11.60 11.70



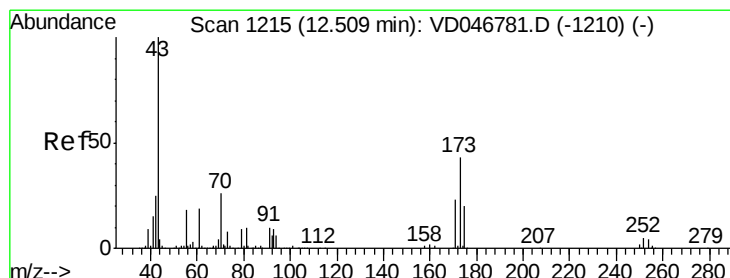
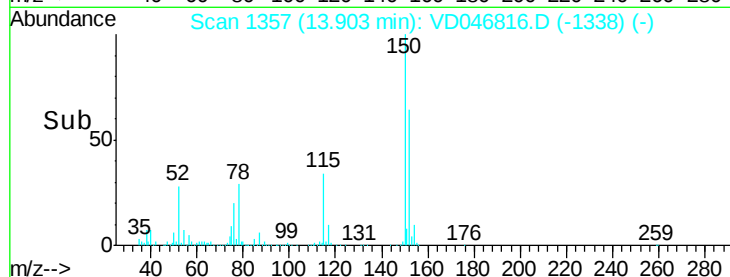
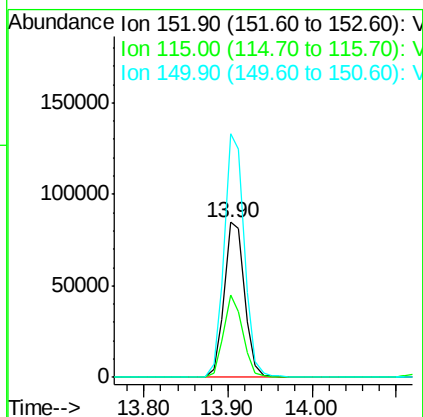
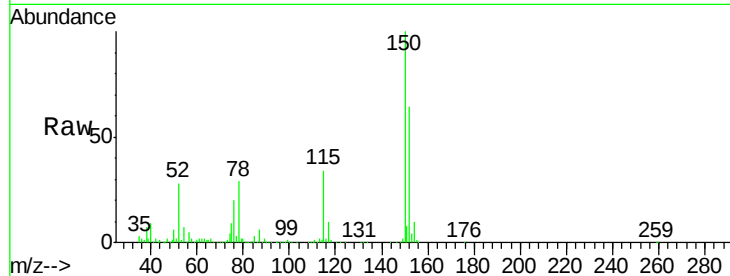


#72

1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.90 min Scan# 1357
Delta R.T. -0.02 min
Lab File: VD046816.D
Acq: 21 Sep 2015 19:19

Instrument :
MSVOA_D
ClientSampleId :
MGP205-24-25

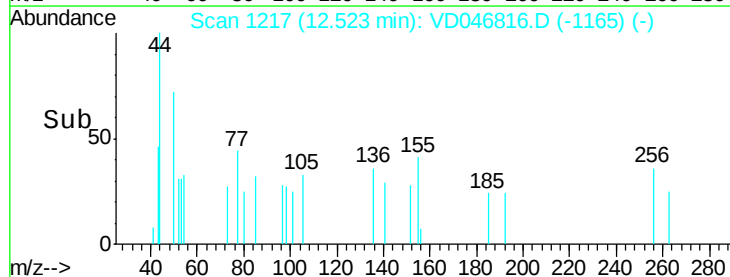
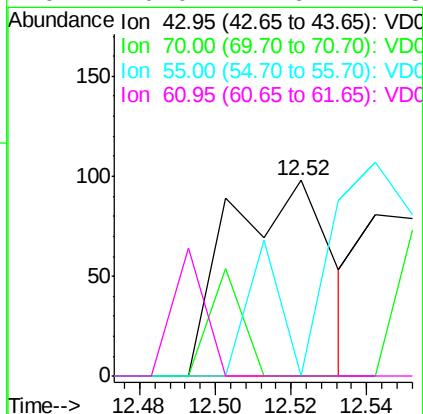
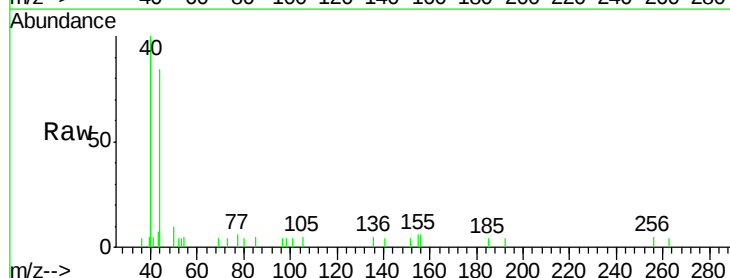
Tot Ion:152 Resp: 143612
Ion Ratio Lower Upper
152 100
115 53.1 26.2 78.6
150 157.2 0.0 311.8

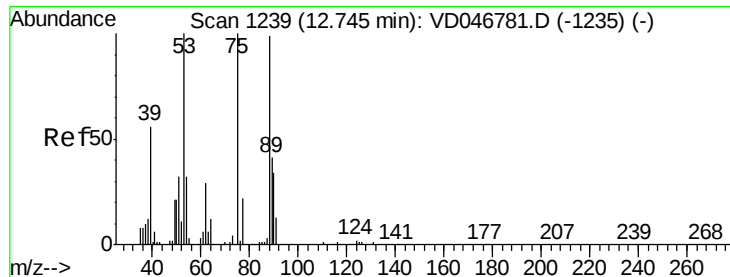


#74

N-ethyl acetate
Concen: 4.78 ug/l
RT: 12.52 min Scan# 1217
Delta R.T. 0.01 min
Lab File: VD046816.D
Acq: 21 Sep 2015 19:19

Tgt Ion: 43 Resp: 183
Ion Ratio Lower Upper
43 100
70 0.0 22.1 33.1#
55 0.0 14.5 21.7#
61 0.0 14.6 21.8#





#81

trans-1,4-Dichloro-2-butene

Concen: 138.81 ug/l

RT: 12.84 min Scan# 1249

Delta R.T. 0.09 min

Lab File: VD046816.D

Acq: 21 Sep 2015 19:19

Instrument :

MSVOA_D

ClientSampleId :

MGP205-24-25

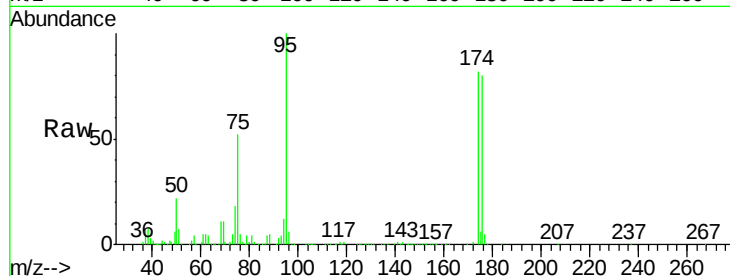
Tot Ion: 75 Resp: 70246

Ion Ratio Lower Upper

75 100

53 0.0 82.3 123.5#

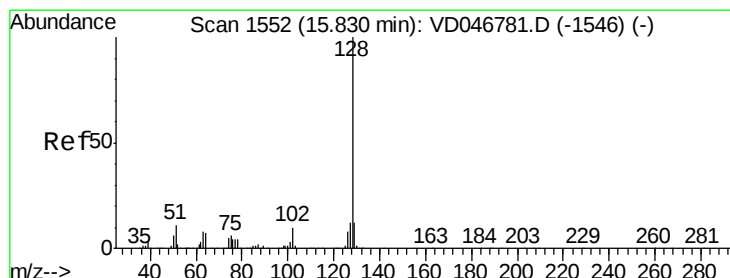
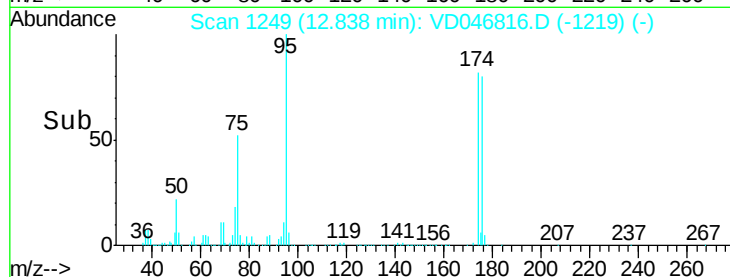
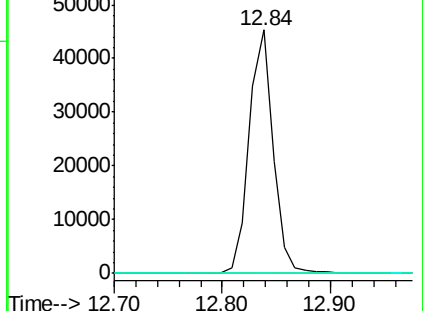
89 0.0 36.6 54.8#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#95

Naphthalene

Concen: 18.74 ug/l

RT: 15.81 min Scan# 1551

Delta R.T. -0.02 min

Lab File: VD046816.D

Acq: 21 Sep 2015 19:19

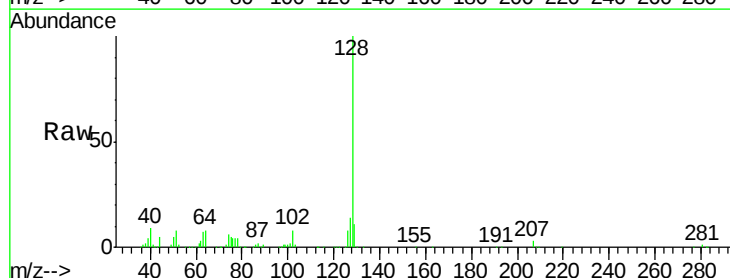
Tgt Ion:128 Resp: 52251

Ion Ratio Lower Upper

128 100

127 13.8 9.8 14.6

129 11.4 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

